Name _____

1. How do you calculate yield strength of a steel material? Support with figure.

2. A 2-in-long round rod with a diameter of 0.25in is loaded with a 4000-lb weight. If the length of the rod increases to 2.1 in, compute the following:

(a) The *engineering* stress at this load.

(b) The *engineering* strain at this load.

(c) The *true* stress at this load.

(d) The *true* strain at this load.